

228

**BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA**

TECHNICAL MEMORANDUM

**IMPORT SOIL EVALUATION
USE OF SOIL SOURCE CC AS IMPORT TO PARCEL C**

To: Mr. Brian Mossman
Boeing Realty Corporation
3855 Lakewood Blvd.
Building 1A MC D001-0097
Long Beach, CA 90846

From: Haley & Aldrich, Inc.

Date: January 18, 2002

Re: Import Soil Evaluation, Use of Soil Source CC as Import to Parcel C, Boeing Realty Corporation,
Former C-6 Facility – Parcel C, Los Angeles, California

Haley & Aldrich, Inc. is herein providing this technical memorandum to summarize our recommendations regarding the use of an identified potential soil source, herein referred to as Source CC, as import to Parcel C of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (subject parcel). Based on our review of the environmental information provided for the Source CC import soil, up to 30,000 cubic yards of a specified portion of Source CC may be used as fill soil on Parcel C.

OVERVIEW/PURPOSE

A source of soil (Source CC), totaling up to approximately 100,000 cubic yards, has been identified as potential import soil for use on Parcel C. Based on information from BRC's contractors only approximately 20,000 to 30,000 cubic yards of soil will be needed at Parcel C. Haley & Aldrich, Inc. personnel collected three soil samples from approximately 30,000 cubic yards of in-place soil located on the southern portion of the property containing the subject Source CC soil. The samples were tested in accordance with the protocol presented in the December 11, 2000 Import Soil Screening Program Plan prepared for Parcel C. This plan has been used as guidance to evaluate import soil from "offsite" sources. The criteria presented in the plan were then compared to the analytical results of the soil samples. The purpose of this technical memorandum is to present a summary of the evaluation of the Source CC soil and to provide recommendations for use as import for Parcel C.

LOCATION OF PROPOSED SOURCE CC IMPORT SOIL

The Source CC soil is located on and originated from the property at the corner of Manitoba and Pershing Drive in Los Angeles, California. This soil will be excavated during site redevelopment for an apartment complex with a two-story subterranean parking structure. The property formerly contained a two-story apartment building that was demolished. The approximately 30,000 cubic yards of soil evaluated herein is located at the southern portion of the site from Manitoba Street to approximately 120 feet north and to a depth ranging from approximately 10 to 30 feet from the ground surface (Figure 1).

COMPARISON OF ANALYTICAL RESULTS TO IMPORT SOIL GUIDANCE CRITERIA

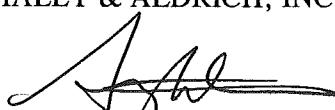
The laboratory report for the soil samples collected from the subject potential source is presented as Appendix A. Each sample was tested for metals, and various organic chemicals, including total petroleum hydrocarbons (TPH), polynuclear aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs). A review of the laboratory results indicates that the PAH results are within the site-specific import soil evaluation criteria presented in the December 11, 2000 Import Soil Screening Program Plan. VOCs and TPH were not detected in the three soil samples, and their detection limits are consistent with the soil import criteria.

Only one metal (selenium) was reported to be greater than the site-specific criteria and the reported southern California background literature value criteria. Selenium concentrations were not detected (< 0.40 milligrams per kilogram [mg/kg]) in two of the three soil samples. Selenium was reported in soil sample Source_CC_3_5_12201 at a concentration of 0.46 mg/kg. The site-specific import soil criteria and the maximum regional background criteria for selenium is 0.43 mg/kg. All of the other metals were less than the site-specific criteria.

RECOMMENDATIONS FOR USE AS IMPORT SOIL

It is recommended that the subject approximately 30,000 cubic yards of soils comprising a portion of Source CC be used as fill soil on Parcel C. The reported soil concentrations for organic compounds are consistent with the site-specific criteria, and those for inorganic chemicals are consistent with the site-specific and/or southern California background criteria, with the exception of selenium. The relatively narrow range of the reported concentrations of selenium in the three soil samples tested suggest that these selenium concentrations are representative of background metals concentrations for the general geographic region from which these soils originated. In addition, the property from which the Source CC soils originates has not been used for industrial activities, and typical indicators of contamination (e.g., discoloration, odors) were neither present in the soil samples collected nor observed in the subject Source CC soils as they were being sampled. Thus, the reported concentration of selenium above the southern California background criterion is not considered to be a result of chemical contamination.

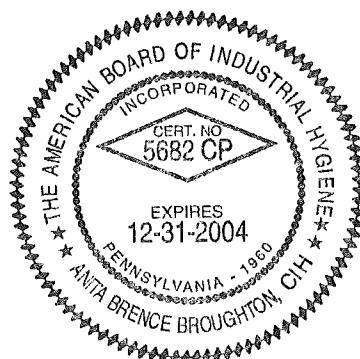
Sincerely yours,
HALEY & ALDRICH, INC.



Anita Broughton, CIH
Risk Assessment Task Manager



Scott Zachary
Project Manager



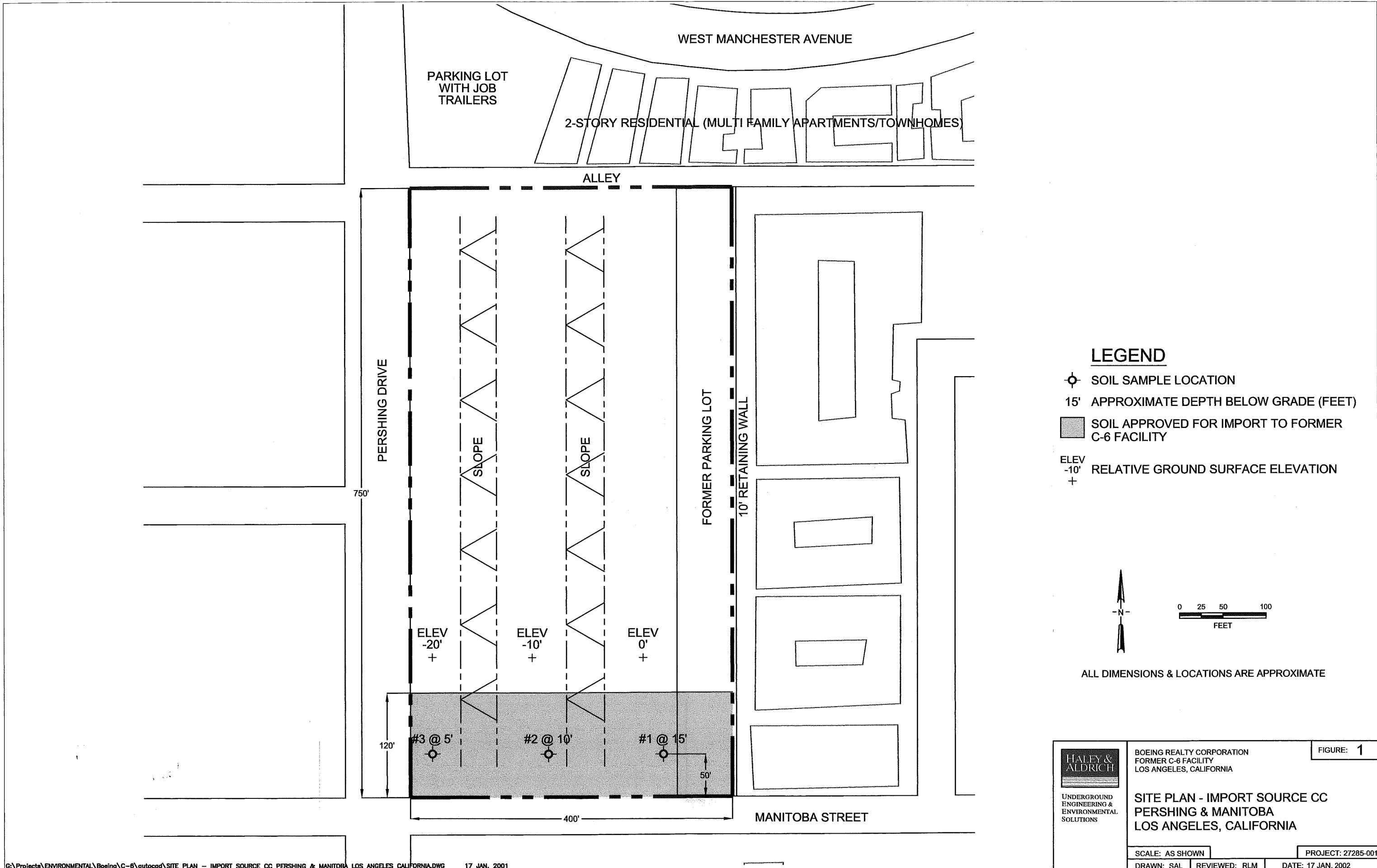
Attachments:

Figure 1 – Site Plan

Appendix A Laboratory Report

FIGURE

Figures



Appendix A

APPENDIX A

LABORATORY REPORT

SEVERN
TRENT
SERVICES

December 21, 2001

STL LOT NUMBER: E1L200274
NELAP Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

Dear Mr. Zachary,

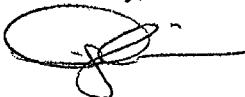
This report contains the analytical results for the three samples received under chain of custody by STL Los Angeles on December 20, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report. The PAHs by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,



Diane Suzuki
Project Manager

CC: Project File

Page 1 of 000068 total pages in this report.

000001

STL Los Angeles is a part of Severn Trent Laboratories, Inc.



**Chain of
Custody Record**

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client HALEY & ALDRICH			Project Manager SCOTT ZACHARY			Date <i>12/20/01</i>	Chain of Custody Number 054111																	
Address 9040 FRIARS RD. SUITE 220			Telephone Number (Area Code)/Fax Number 619-692-9210			Lab Number <i>EIL 200274</i>	Page 1 of 1																	
City SAN DIEGO	State CA	Zip Code 92108	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)																			
Project Name and Location (State) C-6 LOS ANGELES, CA			Carrier/Waybill Number																					
Contract/Purchase Order/Quote No. 27285-001			Matrix		Containers & Preservatives			Special Instructions/ Conditions of Receipt																
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date <i>12/20/01</i>	Time <i>9:30</i>	Air <input type="checkbox"/>	Acidic <input type="checkbox"/>	Sed. <input type="checkbox"/>		Soil <input type="checkbox"/>	Unpres. <input type="checkbox"/>	H ₂ SO ₄ <input type="checkbox"/>	HNO ₃ <input type="checkbox"/>	HCl <input type="checkbox"/>	NaOH <input type="checkbox"/>	ZnAc ₂ <input type="checkbox"/>	NaOH <input type="checkbox"/>	VOC's <input type="checkbox"/>	TRH <input type="checkbox"/>	8015 <input type="checkbox"/>	D <input type="checkbox"/>	6010 <input type="checkbox"/>	PMT <input type="checkbox"/>	8320 <input type="checkbox"/>	
000002			SOURCE - CC - 1 - 15' - 122001	↓	10:15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			SOURCE - CC - 2 - 10' - 122001	↓	10:50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			SOURCE - CC - 3 - 05' - 122001	↓	10:50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Possible Hazard Identification						Sample Disposal						(A fee may be assessed if samples are retained longer than 3 months)												
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																		
Turn Around Time Required												QC Requirements (Specify)												
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____																								
1. Relinquished By <i>J. H. H.</i>						Date <i>12/20/01</i>	Time <i>12:00</i>	1. Received By <i>J. H. H. Deppable & Faeeh</i>						Date <i>12/20/01</i>	Time <i>12:00</i>									
2. Relinquished By <i>J. H. H. Deppable & Faeeh</i>						Date <i>12/20/01</i>	Time <i>13:15</i>	2. Received By						Date <i>12/20/01</i>	Time <i>13:15</i>									
3. Relinquished By						Date	Time	3. Received By						Date	Time									

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**STL LOS ANGELES
PROJECT RECEIPT CHECKLIST**

Quantim Lot #: EIL700274
 Client Name: Bailey & Novotni
 Received by: Bailey
 Delivered by: Client Airborne Fed Ex
 DHL In-House Courier Rey B.
 UPS DES Other

Date: 12/20/01

Quote #: 4229T

Project: Boeing C-6

Date/Time Received: 12/20/01 13:11

DHL In-House Courier Rey B.

UPS DES Other

Initial / Date

AR 12/20/01

Custody Seal Status: Intact Broken None

Custody Seal #(s): No Seal #

Sample Container(s): STL-LA Client N/A

Temperature(s) (Cooler/blank) in °C: 20.1 Correction factor -0.1°C (Corrected Temp.) 20.2

Thermometer Used : ID: B IR (Infra-red) Digital (Probe)

Samples: Intact Broken Other

Anomalies: No Yes (See Clouseau)

Labeled by M.L.T.

Labeling checked by

Turn Around Time: RUSH-24HR RUSH-48HR RUSH-72HR NORMAL

Short-Hold Notification: Ph Wet Chem Metals (Filter/Pres) Encore N/A

Outside Analysis(es) (Test/Lab/Date Sent Out): 8310 to Del Mar Colbun

***** LEAVE NO BLANK SPACES ; USE N/A *****

Fraction	1 → 3										PH
VOA# 1*											N/A
<u>407 C67</u>	<u>3</u>										

h:HCl	n:Sodium Hydroxide	znna:Zinc Acetate/Sodium Hydroxide	s:H ₂ SO ₄	n:HNO ₃	n/f:HNO ₃ -Field filtered	n/f/l:HNO ₃ -Lab filtered		
CGJ:Clear Glass Jar	CGB:Clear Glass Bottle	AGJ:Amber Glass Jar	AGB:Amber Glass Bottle	PB: Poly Bottle	E:Encore Sampler	V:VOA	SL:Sleeve	

* Number of VOA's w/ Headspace present

LOGGED BY/DATE: Bailey 12/20/01 REVIEWED BY/DATE: E.J. 12/20/01

PAC Ver. 6 041401 KMF

QANACAD INSTRUMENTS Sample Control Form

000003

SEVERN
TRENT
SERVICES

Analytical Report

000004

EXECUTIVE SUMMARY - Detection Highlights

ELL200274

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SOURCE_CC_1_15_122001 12/20/01 09:30	001			
Aluminum	2340	20.0	mg/kg	SW846 6010B
Arsenic	1.1	1.0	mg/kg	SW846 6010B
Barium	17.6	2.0	mg/kg	SW846 6010B
Chromium	12.4 J	1.0	mg/kg	SW846 6010B
Beryllium	0.14 B	0.50	mg/kg	SW846 6010B
Lead	1.6	0.50	mg/kg	SW846 6010B
Cobalt	2.2 B	5.0	mg/kg	SW846 6010B
Copper	2.7	2.5	mg/kg	SW846 6010B
Molybdenum	0.39 B	4.0	mg/kg	SW846 6010B
Nickel	5.9	4.0	mg/kg	SW846 6010B
Vanadium	17.3	5.0	mg/kg	SW846 6010B
Zinc	10.2	2.0	mg/kg	SW846 6010B
SOURCE_CC_2_10_122001 12/20/01 10:15	002			
Aluminum	5080	20.0	mg/kg	SW846 6010B
Arsenic	0.89 B	1.0	mg/kg	SW846 6010B
Barium	14.9	2.0	mg/kg	SW846 6010B
Chromium	16.0 J	1.0	mg/kg	SW846 6010B
Beryllium	0.21 B	0.50	mg/kg	SW846 6010B
Lead	1.6	0.50	mg/kg	SW846 6010B
Cobalt	1.8 B	5.0	mg/kg	SW846 6010B
Copper	3.2	2.5	mg/kg	SW846 6010B
Nickel	7.6	4.0	mg/kg	SW846 6010B
Vanadium	14.5	5.0	mg/kg	SW846 6010B
Zinc	8.6	2.0	mg/kg	SW846 6010B
SOURCE_CC_3_5_122001 12/20/01 10:50	003			
Aluminum	10200	20.0	mg/kg	SW846 6010B
Arsenic	1.1	1.0	mg/kg	SW846 6010B
Barium	53.0	2.0	mg/kg	SW846 6010B
Chromium	20.2 J	1.0	mg/kg	SW846 6010B
Beryllium	0.36 B	0.50	mg/kg	SW846 6010B
Lead	3.2	0.50	mg/kg	SW846 6010B
Selenium	0.46 B	0.50	mg/kg	SW846 6010B
Cobalt	4.3 B	5.0	mg/kg	SW846 6010B
Copper	5.2	2.5	mg/kg	SW846 6010B
Molybdenum	0.38 B	4.0	mg/kg	SW846 6010B
Nickel	10.2	4.0	mg/kg	SW846 6010B
Vanadium	36.6	5.0	mg/kg	SW846 6010B
Zinc	20.4	2.0	mg/kg	SW846 6010B

000005

METHODS SUMMARY

ELL200274

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

000006

SAMPLE SUMMARY

ELL200274

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EQV0G	001	SOURCE_CC_1_15_122001	12/20/01	09:30
EQV00	002	SOURCE_CC_2_10_122001	12/20/01	10:15
EQV02	003	SOURCE_CC_3_5_122001	12/20/01	10:50

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000007

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_1_15_122001

GC Semivolatiles

Lot-Sample #....: E1L200274-001 Work Order #....: EQV0G1AA Matrix.....: SOLID
 Date Sampled....: 12/20/01 09:30 Date Received...: 12/20/01 13:15 MS Run #.....: 1354289
 Prep Date.....: 12/20/01 Analysis Date...: 12/20/01
 Prep Batch #....: 1354503 Analysis Time...: 21:46
 Dilution Factor: 1
 Analyst ID.....: 356074 Instrument ID...: G03
 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	ND	10	mg/kg	5.0
C28-C31	ND	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	ND	10	mg/kg	5.0
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
Benzo(a)pyrene		RECOVERY	LIMITS	
		82	(60 - 130)	

000008

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_1_15_122001

GC Volatiles

Lot-Sample #....: E1L200274-001 Work Order #....: EQV0G1AC Matrix.....: SOLID
Date Sampled...: 12/20/01 09:30 Date Received...: 12/20/01 13:15 MS Run #.....: 1355156
Prep Date.....: 12/20/01 Analysis Date...: 12/20/01
Prep Batch #....: 1355355 Analysis Time...: 16:08
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G16
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
C6-C8	ND	1.0	mg/kg	0.10
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
a,a,a-Trifluorotoluene (TFT)	78	RECOVERY	LIMITS	(60 - 130)

000009

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_1_15_122001

GC/MS Volatiles

Lot-Sample #....: E1L200274-001 Work Order #....: EQV0G1AD Matrix.....: SOLID
 Date Sampled....: 12/20/01 09:30 Date Received...: 12/20/01 13:15 MS Run #.....: 1355199
 Prep Date.....: 12/20/01 Analysis Date...: 12/20/01
 Prep Batch #....: 1355410 Analysis Time...: 14:56
 Dilution Factor: 1
 Analyst ID.....: 999998 Instrument ID...: MSD
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

000010

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_1_15_122001

GC/MS Volatiles

Lot-Sample #....: E1L200274-001 Work Order #....: EQV0G1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS	
Bromofluorobenzene	80	(65 - 135)		
1,2-Dichloroethane-d4	84	(60 - 140)		
Toluene-d8	89	(70 - 130)		

000011

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_2_10_122001

GC Semivolatiles

Lot-Sample #....: E1L200274-002 Work Order #....: EQV001AD Matrix.....: SOLID
 Date Sampled...: 12/20/01 10:15 Date Received...: 12/20/01 13:15 MS Run #.....: 1354289
 Prep Date.....: 12/20/01 Analysis Date...: 12/20/01
 Prep Batch #....: 1354503 Analysis Time...: 23:42
 Dilution Factor: 1
 Analyst ID.....: 356074 Instrument ID...: G03
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	ND	10	mg/kg	5.0
C28-C31	ND	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	ND	10	mg/kg	5.0
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
		(60 - 130)		
Benzo(a)pyrene	72			

000012

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_2_10_122001

GC Volatiles

Lot-Sample #....: E1L200274-002 Work Order #....: EQV001AE Matrix.....: SOLID
Date Sampled...: 12/20/01 10:15 Date Received...: 12/20/01 13:15 MS Run #.....: 1355156
Prep Date.....: 12/20/01 Analysis Date...: 12/20/01
Prep Batch #....: 1355355 Analysis Time...: 16:37
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G16
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
SURROGATE	PERCENT RECOVERY	RECOVERY		
	76	LIMITS (60 - 130)		

a,a,a-Trifluorotoluene (TFT)

000013

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_2_10_122001

GC/MS Volatiles

Lot-Sample #....: E1L200274-002 Work Order #....: EQV001AF Matrix.....: SOLID
 Date Sampled...: 12/20/01 10:15 Date Received...: 12/20/01 13:15 MS Run #.....: 1355199
 Prep Date.....: 12/20/01 Analysis Date...: 12/20/01
 Prep Batch #....: 1355410 Analysis Time...: 15:35
 Dilution Factor: 1
 Analyst ID.....: 999998 Instrument ID...: MSD
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

000014

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_2_10_122001

GC/MS Volatiles

Lot-Sample #....: E1L200274-002 Work Order #....: EQV001AF Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS	
Bromofluorobenzene	76		(65 - 135)	
1,2-Dichloroethane-d4	80		(60 - 140)	
Toluene-d8	85		(70 - 130)	

000015

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_3_5_122001

GC Semivolatiles

Lot-Sample #....: E1L200274-003 Work Order #....: EQV021AD Matrix.....: SOLID
 Date Sampled....: 12/20/01 10:50 Date Received...: 12/20/01 13:15 MS Run #.....: 1354289
 Prep Date.....: 12/20/01 Analysis Date...: 12/21/01
 Prep Batch #....: 1354503 Analysis Time...: 00:20
 Dilution Factor: 1
 Analyst ID.....: 356074 Instrument ID...: G03
 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	ND	10	mg/kg	5.0
C28-C31	ND	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	ND	10	mg/kg	5.0
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
Benzo(a)pyrene		RECOVERY	LIMITS	
		86	(60 - 130)	

000016

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_3_5_122001

GC Volatiles

Lot-Sample #....: E1L200274-003 Work Order #....: EQV021AE Matrix.....: SOLID
Date Sampled....: 12/20/01 10:50 Date Received...: 12/20/01 13:15 MS Run #.....: 1355156
Prep Date.....: 12/20/01 Analysis Date...: 12/20/01
Prep Batch #....: 1355355 Analysis Time...: 17:06
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G16
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		MDL
		LIMIT	UNITS	
C6-C8	ND	1.0	mg/kg	0.10
SURROGATE	PERCENT	RECOVERY	LIMITS	
a,a,a-Trifluorotoluene (TFT)	RECOVERY	(60 - 130)		
	82			

000017

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_3_5_122001

GC/MS Volatiles

Lot-Sample #....: E1L200274-003 Work Order #....: EQV021AF Matrix.....: SOLID
 Date Sampled....: 12/20/01 10:50 Date Received...: 12/20/01 13:15 MS Run #.....: 1355199
 Prep Date.....: 12/20/01 Analysis Date...: 12/20/01
 Prep Batch #....: 1355410 Analysis Time...: 16:16
 Dilution Factor: 1
 Analyst ID.....: 999998 Instrument ID...: MSD
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0,
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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000018

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_3_5_122001

GC/MS Volatiles

Lot-Sample #....: E1L200274-003 Work Order #....: EQV021AF Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	79	(65 - 135)		
1,2-Dichloroethane-d4	79	(60 - 140)		
Toluene-d8	87	(70 - 130)		

000019

HALEY & ALDRICH INC

SOURCE_CC_1_15_122001

GC/MS Volatiles

Lot-Sample #: E1L200274-001

Work Order #: EQV0G1AD

Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/kg

000020

HALEY & ALDRICH INC

SOURCE_CC_2_10_122001

GC/MS Volatiles

Lot-Sample #: E1L200274-002

Work Order #: EQV001AF

Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/kg

000021

HALEY & ALDRICH INC

SOURCE_CC_3_5_122001

GC/MS Volatiles

Lot-Sample #: E1L200274-003

Work Order #: EQV021AF

Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/kg

000022

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E1L210000-410 B Work Order #: EQX4A1AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/kg

000023

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_1_15_122001

TOTAL Metals

Lot-Sample #....: E1L200274-001
 Date Sampled....: 12/20/01 09:30 Date Received...: 12/20/01 13:15 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #....: 1354232							
Aluminum	2340	20.0	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AF	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 8.0	
Arsenic	1.1	1.0	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AG	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AH	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.60	
Barium	17.6	2.0	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AJ	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AK	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.060	
Chromium	12.4 J	1.0	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AL	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.10	
Beryllium	0.14 B	0.50	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AM	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.050	
Lead	1.6	0.50	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AN	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B		12/20-12/21/01 EQV0G1AP	
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_1_15_122001

TOTAL Metals

Lot-Sample #....: E1L200274-001

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Silver	ND	1.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV0G1AQ
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.10	
Cobalt	2.2 B	5.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV0G1AR
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.10	
Copper	2.7	2.5	mg/kg		SW846 6010B	12/20-12/21/01	EQV0G1AT
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.40	
Molybdenum	0.39 B	4.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV0G1AU
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.30	
Nickel	5.9	4.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV0G1AV
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.30	
Thallium	ND	1.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV0G1AW
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.80	
Vanadium	17.3	5.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV0G1AX
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 0.10	
Zinc	10.2	2.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV0G1A0
		Dilution Factor: 1		Analysis Time...: 11:29		Analyst ID.....: 0210884	
		Instrument ID...: M01		MS Run #.....: 1355154		MDL.....: 1.0	
Prep Batch #...: 1354233							
Mercury	ND	0.10	mg/kg		SW846 7471A	12/20/01	EQV0G1A1
		Dilution Factor: 1		Analysis Time...: 14:57		Analyst ID.....: 0000234	
		Instrument ID...: M04		MS Run #.....: 1354103		MDL.....: 0.020	

NOTE(S) :

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

000025

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_2_10_122001

TOTAL Metals

Lot-Sample #....: E1L200274-002
 Date Sampled...: 12/20/01 10:15 Date Received...: 12/20/01 13:15 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #....: 1354232							
Aluminum	5080	20.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AH	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	8.0	
Arsenic	0.89 B	1.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AJ	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AK	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.60	
Barium	14.9	2.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AL	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AM	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.060	
Chromium	16.0 J	1.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AN	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.10	
Beryllium	0.21 B	0.50	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AP	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.050	
Lead	1.6	0.50	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AQ	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/20-12/21/01	EQV001AR	
		Dilution Factor: 1		Analysis Time...: 11:37	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.40	

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000026

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_2_10_122001

TOTAL Metals

Lot-Sample #....: E1L200274-002

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Silver	ND	1.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV001AT		
		Dilution Factor: 1			Analysis Time...: 11:37		Analyst ID.....: 0210884		
		Instrument ID...: M01			MS Run #.....: 1355154		MDL.....: 0.10		
Cobalt	1.8 B	5.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV001AU		
		Dilution Factor: 1			Analysis Time...: 11:37		Analyst ID.....: 0210884		
		Instrument ID...: M01			MS Run #.....: 1355154		MDL.....: 0.10		
Copper	3.2	2.5	mg/kg		SW846 6010B	12/20-12/21/01	EQV001AV		
		Dilution Factor: 1			Analysis Time...: 11:37		Analyst ID.....: 0210884		
		Instrument ID...: M01			MS Run #.....: 1355154		MDL.....: 0.40		
Molybdenum	ND	4.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV001AW		
		Dilution Factor: 1			Analysis Time...: 11:37		Analyst ID.....: 0210884		
		Instrument ID...: M01			MS Run #.....: 1355154		MDL.....: 0.30		
Nickel	7.6	4.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV001AX		
		Dilution Factor: 1			Analysis Time...: 11:37		Analyst ID.....: 0210884		
		Instrument ID...: M01			MS Run #.....: 1355154		MDL.....: 0.30		
Thallium	ND	1.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV001AO		
		Dilution Factor: 1			Analysis Time...: 11:37		Analyst ID.....: 0210884		
		Instrument ID...: M01			MS Run #.....: 1355154		MDL.....: 0.80		
Vanadium	14.5	5.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV001A1		
		Dilution Factor: 1			Analysis Time...: 11:37		Analyst ID.....: 0210884		
		Instrument ID...: M01			MS Run #.....: 1355154		MDL.....: 0.10		
Zinc	8.6	2.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV001AA		
		Dilution Factor: 1			Analysis Time...: 11:37		Analyst ID.....: 0210884		
		Instrument ID...: M01			MS Run #.....: 1355154		MDL.....: 1.0		
Prep Batch #....: 1354233									
Mercury	ND	0.10	mg/kg		SW846 7471A	12/20/01		EQV001AC	
		Dilution Factor: 1			Analysis Time...: 14:58		Analyst ID.....: 0000234		
		Instrument ID...: M04			MS Run #.....: 1354103		MDL.....: 0.020		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

000027

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_3_5_122001

TOTAL Metals

Lot-Sample #....: E1L200274-003 Matrix.....: SOLID
 Date Sampled...: 12/20/01 10:50 Date Received..: 12/20/01 13:15

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #....: 1354232							
Aluminum	10200	20.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AH	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	8.0	
Arsenic	1.1	1.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AJ	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AK	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.60	
Barium	53.0	2.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AL	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AM	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.060	
Chromium	20.2 J	1.0	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AN	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.10	
Beryllium	0.36 B	0.50	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AP	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.050	
Lead	3.2	0.50	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AQ	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.30	
Selenium	0.46 B	0.50	mg/kg	SW846 6010B	12/20-12/21/01	EQV021AR	
		Dilution Factor: 1		Analysis Time...: 11:45	Analyst ID.....:	0210884	
		Instrument ID...: M01		MS Run #.....: 1355154	MDL.....:	0.40	

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000028

HALEY & ALDRICH INC

Client Sample ID: SOURCE_CC_3_5_122001

TOTAL Metals

Lot-Sample #...: E1L200274-003

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Silver	ND	1.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV021AT
		Dilution Factor: 1			Analysis Time...: 11:45	Analyst ID.....: 0210884	
		Instrument ID...: M01			MS Run #.....: 1355154	MDL.....: 0.10	
Cobalt	4.3 B	5.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV021AU
		Dilution Factor: 1			Analysis Time...: 11:45	Analyst ID.....: 0210884	
		Instrument ID...: M01			MS Run #.....: 1355154	MDL.....: 0.10	
Copper	5.2	2.5	mg/kg		SW846 6010B	12/20-12/21/01	EQV021AV
		Dilution Factor: 1			Analysis Time...: 11:45	Analyst ID.....: 0210884	
		Instrument ID...: M01			MS Run #.....: 1355154	MDL.....: 0.40	
Molybdenum	0.38 B	4.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV021AW
		Dilution Factor: 1			Analysis Time...: 11:45	Analyst ID.....: 0210884	
		Instrument ID...: M01			MS Run #.....: 1355154	MDL.....: 0.30	
Nickel	10.2	4.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV021AX
		Dilution Factor: 1			Analysis Time...: 11:45	Analyst ID.....: 0210884	
		Instrument ID...: M01			MS Run #.....: 1355154	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV021AO
		Dilution Factor: 1			Analysis Time...: 11:45	Analyst ID.....: 0210884	
		Instrument ID...: M01			MS Run #.....: 1355154	MDL.....: 0.80	
Vanadium	36.6	5.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV021A1
		Dilution Factor: 1			Analysis Time...: 11:45	Analyst ID.....: 0210884	
		Instrument ID...: M01			MS Run #.....: 1355154	MDL.....: 0.10	
Zinc	20.4	2.0	mg/kg		SW846 6010B	12/20-12/21/01	EQV021AA
		Dilution Factor: 1			Analysis Time...: 11:45	Analyst ID.....: 0210884	
		Instrument ID...: M01			MS Run #.....: 1355154	MDL.....: 1.0	
Prep Batch #...: 1354233							
Mercury	ND	0.10	mg/kg		SW846 7471A	12/20/01	EQV021AC
		Dilution Factor: 1			Analysis Time...: 15:00	Analyst ID.....: 0000234	
		Instrument ID...: M04			MS Run #.....: 1354103	MDL.....: 0.020	

NOTE (S) :

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

000029